

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	duplicate near2 negotiations	US-PGPUB; USPAT	OR	ON	2007/10/19 12:53
L2	6909	point adj2 point adj2 protocol	US-PGPUB; USPAT	OR	ON	2007/10/19 12:53
L3	131698	duplicate	US-PGPUB; USPAT	OR	ON	2007/10/19 12:53
L4	1	2 near3 3	US-PGPUB; USPAT	OR	ON	2007/10/19 12:53
L5	37	2 same 3	US-PGPUB; USPAT	OR	ON	2007/10/19 13:39
L6	20456	control adj message	US-PGPUB; USPAT	OR	ON	2007/10/19 13:34
L7	8	6 near5 3	US-PGPUB; USPAT	OR	ON	2007/10/19 13:06
L8	6	("4905282"   "5774668"   "5790800"   "5835724"   "5922052"   "5938731").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/19 13:34
L9	8	("2001/0017856").URPN.	USPAT	OR	ON	2007/10/19 13:31
L10	416475	request	US-PGPUB; USPAT	OR	ON	2007/10/19 14:41
L11	1429	3 near5 10	US-PGPUB; USPAT	OR	ON	2007/10/19 13:40
L12	635	(709/237).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/10/19 13:40
L13	9	12 and 11	US-PGPUB; USPAT	OR	ON	2007/10/19 13:40
L14	21	("4807118").URPN.	USPAT	OR	ON	2007/10/19 13:41
L15	1	("2005/0149632").URPN.	USPAT	OR	ON	2007/10/19 13:46

## EAST Search History

L16	123	( "20010004354" "20010021949" "20010023460" "20010027496" "20010047433" "20020055993" "20020085562" "20020095519" "20020120899" "20020147839" "20020163888" "20030005142" "20030014544" "20030016669" "20030031172" "20030046330" "20030046418" "20030056009" "20030058870" "20030061505" "20030066011" "20030084185" "20030115350" "20030115417" "20030128704" "20030145101" "20030145270" "20030167346" "20030200284" "20050141561" "20050160139" "20050175003" "20050182841" "20050198198" "20050204058" "20050278459" "20060010238" "20070062245" "201212889" "4807111" "4839851" "5012489" "5056058" "5161193" "5163131" "5307413" "5426694" "5430727" "5440551" "5455599" "5485460" "5495480" "5499353" "5513324" "5519704" "5544357" "5546453" "5557105" "5566170" "5577172" "5577237" "5581686" "5596702" "5598410" "5619650" "5621434" "5625678" "5625825" "5634015" "5636371" "5640394" "5650941" "5663951" "5664162" "5666362" "5675507" "5678060" "5680605" "5687314" "5696899" "5699350" "5701316" "5727149" "5734852" "5734865" "5748905" "5754540" "5754556" "5761281" "5778178" "5790546" "5790676" "5802287" "5802306" "5805816" "5809235" "5815516" "5818935" "5826032" "5854750" "5870549" "5870622" "5872919" "5877764" "5909546" "5918051" "5920732" "5923892" "5935268" "5937169" "5941988" "5943481" "5946487" "5966534" "5974518" "5984557" "5991299" "5999974" "6014699" "6034963" "6046980" "6049857" "6061368" "6061742" "6076115" "6078736" "6081846" "6092110" "6092229" "6098188" "6101543" "6122670" "6151625" "6157955" "6172980" "6172990" "6173333" "6182228" "6185619" "6208651" "6226680" "6230193" "6233626" "6247060" "6247068" "6327625" "6330659" "6341129" "6345301" "6347347" "6389479" "6389537" "6393487" "6397316" "6427169" "6430628" "6434620" "6460080" "6530061" "6609225" "6629141").PN.	USPAT	OR	ON	2007/10/19 13:49
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## EAST Search History

L18	61521	ack acknowledge	US-PGPUB; USPAT	OR	ON	2007/10/19 14:41
L19	332	18 near5 3	US-PGPUB; USPAT	OR	ON	2007/10/19 13:50
L20	6	19 and 12	US-PGPUB; USPAT	OR	ON	2007/10/19 13:50
L21	1	("2003/0105877").URPN.	USPAT	OR	ON	2007/10/19 13:55
L22	11	("20040059979" "4896151" "5371731" "5862316" "6105122" "6332165" "6452915" "6640325" "6681254" "6928471" "7010607" "7010614").PN.	USPAT	OR	ON	2007/10/19 14:18
L23	2139	(709/228).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/10/19 14:38
L24	4	23 and 19	US-PGPUB; USPAT	OR	ON	2007/10/19 14:38
L25	1429	10 near5 3	US-PGPUB; USPAT	OR	ON	2007/10/19 14:41
L26	12	25 and 23	US-PGPUB; USPAT	OR	ON	2007/10/19 14:53
L27	2454	duplicate near5 message	US-PGPUB; USPAT	OR	ON	2007/10/19 14:53
L28	26	27 and 23	US-PGPUB; USPAT	OR	ON	2007/10/19 15:27
L29	1	"6775553".pn.	US-PGPUB; USPAT	OR	ON	2007/10/19 15:28


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duplicate control packet ack

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[J Postel](#)

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[J Padhye](#)... those sequence numbers has been delivered and acknowledged by the receiver and all **duplicate** copies of ... Note that only **control** and data **packets** occupy the ...[S Floyd](#)Cited by 2053 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Import into EndNote](#)[V Firoiu](#)[D Towsley](#)
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S Floyd - 1999 - aciri.org

... Congestion **control** for return **ACK** path; ... Proposals for retransmitting **packets** based on one or two **duplicate** acknowledgements. ...Cited by 174 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Import into EndNote](#)
[Improving the start-up behavior of a congestion control scheme for TCP - all 21 versions »](#)

JC Hoe - Applications, Technologies, Architectures, and Protocols for ..., 1996 - portal.acm.org

... that it may recover from multiple **packet** losses more ... as that in the original congestion **control** scheme ... The phase begins when 3 **duplicate ACK**'s are received, and ...Cited by 371 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)
[NETBLT: A High Throughput Transport Protocol - all 3 versions »](#)

DD Clark, ML Lamberl, L Zhang - portal.acm.org

... because single **control** messages can **ACK** many data ... depending on the number of **packets** per buffer). ... the overhead incurred by processing **duplicate control** messages ...Cited by 143 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#)
[Does the IEEE 802.11 MAC protocol work well in multihop wireless adhoc networks? - all 8 versions »](#)

S Xu, T Saadawi - Communications Magazine, IEEE, 2001 - ieeexplore.ieee.org

... the medium is free) with a response **control Packet** called clear to send (CTS ... protects the transmit- ter area from collisions during the M-**ACK** (from stations ...Cited by 466 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)
[TCP Vegas: new techniques for congestion detection and avoidance - all 32 versions »](#)

LS Brakmo, SW O'Malley, LL Peterson - ACM SIGCOMM Computer Communication Review, 1994 - portal.acm.org

... It is used for congestion **control**, and is an upper limit ... n is usually 3). Reno sends a **duplicate ACK** whenever it ... Rcvd **ACK** for packet 11 Send packet 14 Rcvd **ACK** ...Cited by 607 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [Library Search](#) - [BL Direct](#)
[Window-based error recovery and flow control with a slowacknowledgement channel: a study of TCP/IP ... - all 9 versions »](#)

TV Lakshman, U Madhow, B Suter - INFOCOM'97. Sixteenth Annual Joint Conference of the IEEE ..., 1997 - ieeexplore.ieee.org

... of interest uses a window flow **control** protocol ... retransmitted after the number of such **dupllicate** acknowl- edgements ... part of t) (2 Tahoe) After a **packet** loss is ...Cited by 136 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)
[Modeling TCP throughput: a simple model and its empirical validation - all 19 versions »](#)

J Padhye, V Firoiu, D Towsley, J Kurose - ACM SIGCOMM Computer Communication Review, 1998 - portal.acm.org

... a stochastic model of TCP conges- tion **control** that yields ... behavior, the manner in which **packet** loss is inferred (eg, whether by **duplicate ACK** detection and ...Cited by 1589 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)
[Error control using retransmission schemes in multicast transport protocols for real-time media - all 7 versions »](#)

S Pejhan, M Schwartz, D Anastassiou - IEEE/ACM Transactions on Networking (TON), 1996 - portal.acm.org

... mtdticast, it will generate several **duplicate packets**, depending on ... BRAU93, CrPa88, SABN82], in XTP **control** messages are ... to retransmit the same **packet** (up to a ...Cited by 83 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)

Promoting the use of end-to-end congestion **control** in the Internet - all 74 versions »  
S Floyd, K Fall - Networking, IEEE/ACM Transactions on, 1999 - ieeexplore.ieee.org  
... as the bandwidth delivered to the receiver, excluding **duplicate packets**. ... FALL:  
END-TO-END CONGESTION **CONTROL** IN THE ... size limitation, a smaller **packet** size, a ...  
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duplicate control packet

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... receiving end can easily check and correct **duplicate** or out-of-order **packets**. If data or **control packets** are lost, the most common recovery technique is for ...Cited by 143 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#)**Weak duplicate address detection in mobile ad hoc networks - all 17 versions »**

NH Vaidya - Proceedings of the 3rd ACM international symposium on Mobile ..., 2002 - portal.acm.org

... address assignment scheme which uses timeouts in the procedure for detecting **duplicate** addresses. ... Our keys are only included in network layer **control packets**. ...Cited by 133 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#)**An active service framework and its application to real-time multimedia transcoding - all 44 versions »**

E Amir, S McCanne, R Katz - ACM SIGCOMM Computer Communication Review, 1998 - portal.acm.org

... the inconsis- tent entries, thus ensuring eventual consistency and resilience to **packet** loss. ... In AS 1, the analog of a flood of **duplicate control** messages is a ...Cited by 352 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)**On-demand multicast routing protocol - all 19 versions »**

SJ Lee, M Gerla, CC Chiang - Wireless Communications and Networking Conference, 1999. ..., 1999 - ieeexplore.ieee.org

... multicast data **packet**, a node forwards it only if it is not a **duplicate** and the ... In ODMRP, no explicit **control packets** need to be sent to join or leave the group ...Cited by 272 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#)**Error control using retransmission schemes in multicast transport protocols for real-time media - all 7 versions »**

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... mtdticast, it will generate several **duplicate packets**, depending on ... of times that a **packet** is transmitted ... **Control packets** are small and congestion is often ...Cited by 83 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)**Improving the start-up behavior of a congestion control scheme for TCP - all 21 versions »**

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... so that it may recover from multiple **packet** losses more ... as that in the original congestion **control** scheme. ... The phase begins when 3 **duplicate** ACK's are received ...Cited by 371 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)**Split multipath routing with maximally disjoint paths in ad hoc networks - all 10 versions »**

SJ Lee, M Gerla - Communications, 2001. ICC 2001. IEEE International ..., 2001 - ieeexplore.ieee.org

... RREQs, intermediate nodes forward the **duplicate packets** that traversed ... Both data and **control packets** are measured. The rea- sons for **packet** drops can be ...Cited by 325 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)**Window-based error recovery and flow control with a slowacknowledgement channel: a study of TCP/IP ... - all 9 versions »**

TV Lakshman, U Madhow, B Suter - INFOCOM'97. Sixteenth Annual Joint Conference of the IEEE ..., 1997 -  
ieeexplore.ieee.org

... connection of interest uses a window flow **control** protocol ... a fast retransmit option,  
in which a **packet** is ... after the number of such **duplicate** acknowl- edgements ...

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... to re-broadcast any non-duplicate data packets ... we employed RTSKTS exclusively for unicast control packets directed to ... of collisions over the wireless medium. ...

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... is free) with a response control Packet called clear ... be possible for the transmission of an entire packet. ... the hidden node problem, wireless packet networks ...

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**Improving TC/IP performance over wireless networks - all 22 versions »**

 H Balakrishnan, S Seshan, E Amir, RH Katz - Proceedings of the 1st annual international conference on ... , 1995 - [portal.acm.org](#)

... base station (snoop) hides the packet loss from ... by not propagating duplicate acknowledgments, thereby ... unnecessary congestion control mechanism invocations. ...

 Cited by 505 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#)
**On-demand multicast routing protocol - all 19 versions »**

 SJ Lee, M Gerla, CC Chiang - Wireless Communications and Networking Conference, 1999. ... , 1999 - [ieeexplore.ieee.org](#)

... large networks and more stable for mobile wireless networks. ... it only if it is not a duplicate and the ... In ODMRP, no explicit control packets need to be sent to ...

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**QoS issues in ad hoc wireless networks - all 13 versions »**

 S Chakrabarti, A Mishra - Communications Magazine, IEEE, 2001 - [ieeexplore.ieee.org](#)

... for a service with lower QoS by exchanging control packets ... If such a packet fails to arrive within a ... Duplicate packets are discarded at the destination. ...

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**Forwarding Group Multicast Protocol (FGMP) for multihop, mobile wireless networks - all 19 versions »**

CC Chiang, M Gerla, L Zhang - Cluster Computing, 1998 - Springer

... a multicast packet, it will broadcast this packet if it is not a duplicate. ... To reduce packet drop rate due to congestion, access control and internal ...

 Cited by 159 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)
**A comparison of mechanisms for improving TCP performance over wireless links - all 89 versions »**

 H Balakrishnan, VN Padmanabhan, S Seshan, RH Katz - IEEE/ACM Transactions on Networking (TON), 1997 - [portal.acm.org](#)

... receiving this information with duplicate acknowledgments, the ... incorrect invocation of congestion control algorithms when ... retransmission of a packet lost on ...

 Cited by 1143 - [Related Articles](#) - [Web Search](#) - [Import into EndNote](#) - [BL Direct](#)
**On-Demand Multicast Routing Protocol in Multihop Wireless Mobile Networks - all 18 versions »**

SJ Lee, W Su, M Gerla - Mobile Networks and Applications, 2002 - Springer

... on enhanced distance vector algorithm (eg, Wireless Routing ... it only when it is not a duplicate and the ... In ODMRP, no explicit control packets need to be sent ...

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**Data link control protocols for wireless ATM access channels - all 3 versions »**

D Raychaudhuri, H Xie, R Yuan - US Patent 5,684,791, 1997 - Google Patents

... The present invention relates to wireless ATM systems, 5 variable bit-rate (VBR) and packet data, each with ... 3. wireless data link control (DLC) protocols ...



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[TCP over wireless with link level error control: analysis and design methodology - all 7 versions](#)

»

NM Chaskar, TV Lakshman, U Madhow - Networking, IEEE/ACM Transactions on, 1999 - [ieeexplore.ieee.org](#)

... **Packet** loss detected via **duplicate** ACK's results in ... et al.: TCP OVER WIRELESS WITH

LINK LEVEL ERROR **CONTROL** ... error-recovery mechanism for the **packet** that is ...

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